



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date: January 31, 2011	EPA Reg No./ File Symbol: 264-704	Page 1 of 10
Applicant's/Registrant's Name and Address: Bayer CropScience 2 T.W. Alexander Drive Research Triangle Park, NC 27709	Product: Pyrimethanil Technical	
Ingredient: Pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine); CAS Number 53112-28-0		

Guideline Reference No.	Guideline Study Name	MRID No.	Submitter	Status	Note
Product Chemistry Data Requirements					
830.1550	Identity and composition	43301601	Bayer Cropscience (264)	Own	
830.1620	Description of Mfg. Process	43301601	Bayer Cropscience (264)	Own	
830.1670	Discussion on impurities	43301601	Bayer Cropscience (264)	Own	
830.1700	Preliminary analysis	43301602	Bayer Cropscience (264)	Own	
830.1750	Certified limits	43301602	Bayer Cropscience (264)	Own	
830.1800	Analytical method	43301602	Bayer Cropscience (264)	Own	
830.6302	Color	43345001	Bayer Cropscience (264)	Own	
830.6303	Physical State	43345001	Bayer Cropscience (264)	Own	
830.6304	Odor	43345001	Bayer Cropscience (264)	Own	
830.6313	Stability to temp, metal	43345001	Bayer Cropscience (264)	Own	
830.6314	Oxidation/Reduction	43345001	Bayer Cropscience (264)	Own	
830.6315	Flammability	43345001	Bayer Cropscience (264)	Own	
830.6316	Explosibility	43345001	Bayer Cropscience (264)	Own	
830.7000	pH	43345001	Bayer Cropscience (264)	Own	
830.7200	Melting point	43345001	Bayer Cropscience (264)	Own	
830.7220	Boiling point	43345001	Bayer Cropscience (264)	Own	
830.7300	Density/bulk density	43345001	Bayer Cropscience (264)	Own	
830.7370	Dissociation Constant-water	43511801	Bayer Cropscience (264)	Own	
830.7570	Partition coefficient	43345001	Bayer Cropscience (264)	Own	
830.7950	Vapor Pressure	43345001	Bayer Cropscience (264)	Own	
830.7840	Solubility-water and solvents	43345001	Bayer Cropscience (264)	Own	
Ecological Effects Data Requirements					
850.1010	Daphnia acute toxicity	45657004	Bayer Cropscience (264)	Own	
850.1020	Estuarine/marine toxicity-fish	45657005	Bayer Cropscience (264)	Own	

Signature <i>Melvin K. Tolliver</i>	Name and Title Melvin Tolliver, Registration Manager	Date January 31, 2011
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Date: January 31, 2011	EPA Reg No./ File Symbol: 264-704	Page 2 of 10
Applicant's/Registrant's Name and Address: Bayer CropScience 2 T.W. Alexander Drive Research Triangle Park, NC 27709	Product: Pyrimethanil Technical	
Ingredient: Pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine); CAS Number 53112-28-0		

Guideline Reference No.	Guideline Study Name	MRID No.	Submitter	Status	Note
850.1035	Estuarine/marine toxicity-mysid	45657006	Bayer Cropscience (264)	Own	
850.1055	Estuarine/marine toxicity-mollusk	45657007	Bayer Cropscience (264)	Own	
850.1075	Fish acute toxicity - trout	45657008	Bayer Cropscience (264)	Own	
850.1075	Fish acute toxicity - bluegill	45657009	Bayer Cropscience (264)	Own	
850.1300	Daphnia-Life Cycle	45657011	Bayer Cropscience (264)	Own	
850.1350	Mysid Life Cycle	45657012	Bayer Cropscience (264)	Own	
850.1400	Fish Early Life Stage	45657013	Bayer Cropscience (264)	Own	
850.SUPP	Fish chronic toxicity - rainbow trout (supp.)	45657014	Bayer Cropscience (264)	Own	
850.1500	Fish Life Cycle	46415003 46685401 47516901	Bayer Cropscience (264)	Own	
850.1730	Fish Bioaccumulation	46415001	Bayer Cropscience (264)	Own	
850.1735	Sediment toxicity: freshwater invertebrates	46925901	Bayer Cropscience (264)	Own	
850.1740	Sediment toxicity: marine invertebrates	46925902	Bayer Cropscience (264)	Own	
850.2100	Acute avian oral-bobwhite quail	45657015	Bayer Cropscience (264)	Own	
850.2100	Acute avian oral-mallard duck	45657016	Bayer Cropscience (264)	Own	
850.2100	Acute avian oral-bobwhite quail and mallard duck	45657017	Bayer Cropscience (264)	Own	
850.2200	Acute avian dietary LD50-bobwhite quail	45657018	Bayer Cropscience (264)	Own	
850.2200	Acute avian dietary LD50-mallard duck	45657019	Bayer Cropscience (264)	Own	
850.2300	Avian reproduction-quail	45657020 45657021	Bayer Cropscience (264)	Own	
850.2300	Avian reproduction-duck	45657022	Bayer Cropscience (264)	Own	

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Ingredient: Pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine); CAS Number 53112-28-0		

Guideline Reference No.	Guideline Study Name	MRID No.	Submitter	Status	Note
850.4100	Seedling emergence – Tier 1	48293001	Bayer CropScience (264)	Own	
850.4150	Vegetative vigor – Tier 1	48282301	Bayer CropScience (264)	Own	
850.4225 850.4250	Terrestrial seedling emergence/vegetative vigor	46415002 46685402 46898301	Bayer CropScience (264)	Own	
850.5400	Aquatic plant growth-freshwater diatom	45657024	Bayer CropScience (264)	Own	
850.5400	Aquatic plant growth-marine diatom	45657101	Bayer CropScience (264)	Own	
850.5400	Aquatic plant growth - algae	45657102	Bayer CropScience (264)	Own	
850.5400	Aquatic plant growth - freshwater algae	45657103	Bayer CropScience (264)	Own	
850.4400	Aquatic plant growth - duckweed	45657104	Bayer CropScience (264)	Own	
850.3020	Honey bee acute contact toxicity	45657023	Bayer CropScience (264)	Own	
Environmental Fate Data Requirements					
161-1	Hydrolysis	45656915	Bayer CropScience (264)	Own	
161-2	Photodegradation - water	45656916	Bayer CropScience (264)	Own	
161-3	Photodegradation - soil	45656926	Bayer CropScience (264)	Own	
162-1	Aerobic soil metabolism	45656922	Bayer CropScience (264)	Own	
162-1	Aerobic soil metabolism	45656921	Bayer CropScience (264)	Own	
162-1	Aerobic soil metabolism	45656920	Bayer CropScience (264)	Own	
162-1	Aerobic soil metabolism	45656919	Bayer CropScience (264)	Own	
162-1	Aerobic soil metabolism	45656918	Bayer CropScience (264)	Own	
162-1	Aerobic soil metabolism	45656917	Bayer CropScience (264)	Own	
162-2	Anaerobic soil metabolism	45656923	Bayer CropScience (264)	Own	
162-3	Anaerobic aquatic metabolism	45657002	Bayer CropScience (264)	Own	
162-4	Aerobic aquatic metabolism	45657001	Bayer CropScience (264)	Own	
163-1	Adsorption/desorption	45656925	Bayer CropScience (264)	Own	

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Ingredient: Pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine); CAS Number 53112-28-0		

Guideline Reference No.	Guideline Study Name	MRID No.	Submitter	Status	Note
163-1	Column Leaching	45656914	Bayer Cropscience (264)	Own	
163-1	Aged leaching	45656912	Bayer Cropscience (264)	Own	
163-1	Adsorption/Desorption	45656913	Bayer Cropscience (264)	Own	
163-1	Adsorption/Desorption	45656911	Bayer Cropscience (264)	Own	
163-1	Adsorption/Desorption	45656910	Bayer Cropscience (264)	Own	
163-1	Adsorption/Desorption (Supplemental)	45935301	Bayer Cropscience (264)	Own	
164-1	Field dissipation	45657003	Bayer Cropscience (264)	Own	
Residue Chemistry Data Requirements					
860.1300	Plant metabolism - vines	43301631	Bayer Cropscience (264)	Own	
860.1300	Plant metabolism - lettuce	44908501	Bayer Cropscience (264)	Own	
860.1300	Plant metabolism - tomatoes	44908502	Bayer Cropscience (264)	Own	
860.1300	Plant metabolism - apples	44945401	Bayer Cropscience (264)	Own	
860.1300	Plant metabolism - carrots	45777901	Bayer Cropscience (264)	Own	
860.1300	Ruminant metabolism (cattle)	43301632	Bayer Cropscience (264)	Own	
860.1340	Residue MOA Full Validation - plant	44908503	Bayer Cropscience (264)	Own	
860.1340	Residue MOA Radiovalidation - plant	45657105	Bayer Cropscience (264)	Own	
860.1340	Residue MOA (plant) ILV	45657106	Bayer Cropscience (264)	Own	
860.1340	Analytical Method-Water/Wine	43301633	Bayer Cropscience (264)	Own	
860.1340	Analytical Method-Vines	43345010	Bayer Cropscience (264)	Own	
860.1340	Analytical Method-Fruit & Vegetables	44908503	Bayer Cropscience (264)	Own	
860.1340	Residue MOA/Radiovalidation Development-Animal	45657107	Bayer Cropscience (264)	Own	
860.1340	Analytical Method (Animal)	45678601	Bayer Cropscience (264)	Own	
860.1340	Analytical Method (Animal) ILV	45678602	Bayer Cropscience (264)	Own	
860.1340	Validation GLC Method	47567305	Bayer Cropscience (264)	Own	

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Ingredient: Pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine); CAS Number 53112-28-0		

Guideline Reference No.	Guideline Study Name	MRID No.	Submitter	Status	Note
860.1340	Analytical Method (Animal – LC/MS/MS)	48308601	Bayer Cropscience (264)	Own	
860.1360	PAM-1 Multiresidue testing (plant method)	43511803	Bayer Cropscience (264)	Own	
860.1360	Multiresidue testing - bananas	44908504	Bayer Cropscience (264)	Own	
860.1360	PAM-1 Multiresidue testing (animal method)	45799401	Bayer Cropscience (264)	Own	
860.1380	Residue storage stability - plant (tomatoes)	44945402	Bayer Cropscience (264)	Own	
860.1380	Residue storage stability - plant (lettuce)	44908506	Bayer Cropscience (264)	Own	
860.1380	Residue storage stability - plant (almond)	46940201	Bayer Cropscience (264)	Own	
860.1380	Residue storage stability - plant (wheat)	46940202	Bayer Cropscience (264)	Own	
860.1380	Residue storage stability - plant (carrots)	44908505	Bayer Cropscience (264)	Own	
860.1380	Residue storage stability - plant (vines)	43301634	Bayer Cropscience (264)	Own	
860.1380	Residue storage stability - plant (wine)	43301635	Bayer Cropscience (264)	Own	
860.1380	Residue storage stability - plant (wine)	43301636	Bayer Cropscience (264)	Own	
860.1380	Bayer response to HED's re-evaluation of livestock tolerances	47616901	Bayer Cropscience (264)	Own	
860.1480	Meat/milk/poultry/egg residue (cattle)	45657122	Bayer Cropscience (264)	Own	
860.1480	Bayer response to HED's re-evaluation of livestock tolerances	47616901	Bayer Cropscience (264)	Own	
860.1500	Meat/milk/poultry/egg residue (cattle)	45657108	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (almond)	45657109	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (apple)	45657110	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (apricot)	45657111	Bayer Cropscience (264)	Own	

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Applicant's/Registrant's Name and Address: Bayer CropScience 2 T.W. Alexander Drive Research Triangle Park, NC 27709	Product: Pyrimethanil Technical	
Ingredient: Pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine); CAS Number 53112-28-0		

Guideline Reference No.	Guideline Study Name	MRID No.	Submitter	Status	Note
860.1500	Crop field residue trials (bushberry)	47567035	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (caneberry)	47567034	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (bulb vegetables)	45657112	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (lemon)	47425604	IR-4	PER	
860.1500	Crop field residue trials (peaches)	45657113	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (pears)	45657114	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (plums)	45657115	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (potatoes)	45657116	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (tomatoes)	45657117	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (tomatoes – greenhouse)	45657118	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (tomatoes – greenhouse)	45657119	Bayer Cropscience (264)	Own	
860.1500	Crop field residue trials (strawberries)	45657123	Bayer Cropscience (264)	Own	
860.1500	Bushberry (CG 13B (bushberry)/Blueberry (highbush))	47567035	Bayer Cropscience (264)	OWN	
860.1500	Caneberry (CG 13A) - Blackberry	47567034	Bayer Cropscience (264)	OWN	
860.1500	Adjuvant Trials Onions, dry bulb	48239921	264	OWN	
860.1500	Adjuvant Trials Potato	48239922	264	OWN	
860.1520	Processed food/feed (apple)	45657120	Bayer Cropscience (264)	Own	
860.1520	Processed food/feed (grape)	45657121	Bayer Cropscience (264)	Own	
860.1520	Processed food/feed (potato)	45657201	Bayer Cropscience (264)	Own	
860.1520	Processed food/feed (tomato)	45657202	Bayer Cropscience (264)	Own	

Signature

Melvin K. Tolliver

Name and Title

Melvin Tolliver, Registration Manager

Date

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Applicant's/Registrant's Name and Address: Bayer CropScience 2 T.W. Alexander Drive Research Triangle Park, NC 27709	Product: Pyrimethanil Technical	
Ingredient: Pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine); CAS Number 53112-28-0		

Guideline Reference No.	Guideline Study Name	MRID No.	Submitter	Status	Note
860.1520	Processed food/feed (plum)	45657203	Bayer Cropscience (264)	Own	
860.1850	Confined accumulation in rotational crops	45657204	Bayer Cropscience (264)	Own	
860.1900	Field accumulation in rotational crops	45657205 46801001	Bayer Cropscience (264)	Own	
Toxicology Data Requirements					
870.1100	Acute oral toxicity	43345002	Bayer Cropscience (264)	Own	
870.1200	Acute dermal toxicity	43345003	Bayer Cropscience (264)	Own	
870.1300	Acute inhalation toxicity	43301604	Bayer Cropscience (264)	Own	
870.2400	Primary eye irritation	43345004	Bayer Cropscience (264)	Own	
870.2500	Primary dermal irritation	43345005	Bayer Cropscience (264)	Own	
870.2600	Dermal sensitization	43301605 43845601	Bayer Cropscience (264)	Own	
870.3050	28-Day subacute dietary (mouse)	45657215 45657216	Bayer Cropscience (264)	Own	
870.3050	28-Day subacute dietary (rat)	45657217	Bayer Cropscience (264)	Own	
870.3050	28-Day subacute toxicity (dog)	45657218	Bayer Cropscience (264)	Own	
870.3100	90-Day feeding (rat)	43301608 43345006 43301609	Bayer Cropscience (264)	Own	
870.3100	90-Day feeding (mouse)	43301606 43301607	Bayer Cropscience (264)	Own	
870.3150	90-Day feeding (dog)	43301610 43301611	Bayer Cropscience (264)	Own	
870.3465	90-Day Inhalation	46398001	Bayer Cropscience (264)	Own	

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Ingredient: Pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine); CAS Number 53112-28-0		

Guideline Reference No.	Guideline Study Name	MRID No.	Submitter	Status	Note
870.3700	Developmental Toxicity (rat)	43301617 43301618 43301619	Bayer Cropscience (264)	Own	
870.3700	Developmental Toxicity (rabbit)	43301620 43301621 43301622	Bayer Cropscience (264)	Own	
870.3800	2-Generation Reproduction (rat)	43301623 43345008	Bayer Cropscience (264)	Own	
870.4100	Chronic toxicity-non-rodent (1-yr dog)	43301614 43345007	Bayer Cropscience (264)	Own	
870.4200	Oncogenicity (mouse)	43301615 43301616 43726702 46398001 48046301	Bayer Cropscience (264)	Own	
870.4300	Combined chronic and oncogenicity (rat)	43301612 43301613 43852701	Bayer Cropscience (264)	Own	
870.5100	Gene mutation-Ames Test	43301624 43301625	Bayer Cropscience (264)	Own	
870.5100	Gene mutation-mammalian cells	45657219	Bayer Cropscience (264)	Own	
870.5200	Structural chromosomal aberration	43301627	Bayer Cropscience (264)	Own	
870.5395	Mammalian erythrocyte micronucleus test	43301626	Bayer Cropscience (264)	Own	
870.5550	Unscheduled DNA synthesis in vitro	43301628	Bayer Cropscience (264)	Own	

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870.6200	Acute Neurotoxicity	45657220 45657221	Bayer Cropscience (264)	Own	
870.6200	Subchronic Neurotoxicity	45657222	Bayer Cropscience (264)	Own	
870.6200	Acute Neurotoxicity (supplemental)	44892202 44892203 45801901	Bayer Cropscience (264)	Own	
870.7485	General metabolism (rat)	43301629 43301630 43345009 43726701 43750101	Bayer Cropscience (264)	Own	
870.7600	Dermal Absorption	46630101	Bayer Cropscience (264)	Own	
870.7800	28-Day Immunotoxicity	48263901	Bayer Cropscience (264)	Own	
870.SUPP	14-Day mechanistic study (supplemental)	43854202	Bayer Cropscience (264)	Own	
870.SUPP	7-Day mechanistic study (supplemental)	43854203	Bayer Cropscience (264)	Own	
870.SUPP	Toxicology expert assessment (supplemental)	43854201	Bayer Cropscience (264)	Own	
Occupational & Residential Exposure Data Requirements					
875.1300	Applicator exposure assessment	45657224	Bayer Cropscience (264)	Own	
875.2100	Foliar residue dissipation (dislodgeable residues)	45657223 45820401	Bayer Cropscience (264)	Own	
Miscellaneous Data Requirements					

Signature <i>Melvin K. Tolliver</i>	Name and Title Melvin Tolliver, Registration Manager	Date January 31, 2011
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date: January 31, 2011	EPA Reg No./ File Symbol: 264-704	Page 10 of 10
Applicant's/Registrant's Name and Address: Bayer CropScience 2 T.W. Alexander Drive Research Triangle Park, NC 27709	Product: Pyrimethanil Technical	
Ingredient: Pyrimethanil (4,6-dimethyl-N-phenyl-2-pyrimidinamine); CAS Number 53112-28-0		

Guideline Reference No.	Guideline Study Name	MRID No.	Submitter	Status	Note
NA	Reduced risk document (supplemental)	45656901 45656902 45656903 45656904	Bayer Cropscience (264)	Own	
NA	Market share information (confidential)	47202301	Bayer Cropscience (264)	Own	
NA	Market share information (confidential)	48263902	Bayer Cropscience (264)	Own	

Signature <i>Melvin K. Tolliver</i>	Name and Title Melvin Tolliver, Registration Manager	Date January 31, 2011
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